



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

THE APPLICATION OF:

STEPHEN M. ALLEN

CASE NO.: BB1107USCNT

APPLICATION NO.: 10/628,969

CONFIRMATION NO.: 8563

GROUP ART UNIT: 1638

EXAMINER: UNKNOWN

FILED: JULY 28, 2003

FOR: PLANT GENES ENCODING DR1 AND DRAP1, A GLOBAL REPRESSOR
COMPLEX OF TRANSCRIPTION

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
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Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08 and PTO-892 Forms.

Benefit of the earlier filing date of U.S. Patent Application No. 09/789,054, filed February 20, 2001 is claimed under 35 U.S.C. 120 for the above-referenced application and only copies of information not previously made of record in the parent are enclosed.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,

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Dated:

Enclosures

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Application Number	09/789,054
Filing Date	February 20, 2001
First Named Inventor	Stephen M. Allen et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	BB1107 US CIP

U.S. PATENT DOCUMENTS

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		RONALD C. CONAWAY ET AL., Annu. Rev. Biochem., vol. 62:161-190, 1993, General Initiation Factors for RNA Polymerase II	
		LEIGH ZAWEL ET AL., Annu. Rev. Biochem., vol. 64:533-561, 1995, Common Themes in Assembly and Function of Eukaryotic Transcription Complexes	
		WENDY HANNA-ROSE ET AL., Trends in Genetics, vol. 12(6):229-234, Active Repression Mechanisms of Eukaryotic Transcription Repressors	
		YANG SHI ET AL., Cell, vol. 67:377-388, 10/18/1991, Transcriptional Repression by YY1, a Human GLI-Kruppel-Related Protein, and Relief of Repression by Adenovirus E1A Protein	
		ROBERT BENEZRA ET AL., Cell, vol. 61:49-59, 04/06/1990, The Protein Id: A Negative Regulator of Helix-Loop-Helix DNA Binding Proteins	
		PATRICK A. BAEUERLE ET AL., Science, vol. 242:540-545, IκB: A Specific Inhibitor of the NF-κB Transcription Factor	
		DONALD E. AYER ET AL., Cell, vol. 80:767-776, 03/10/1995, Mad-Max Transcriptional Repression is Mediated by Ternary Complex Formation with Mammalian Homologs of Yeast Repressor Sin3	
		JUAN A. INOSTROZA ET AL., Cell, vol. 70:477-489, 08/07/1992, Dr1, a TATA-Binding Protein-Associated Phosphoprotein and Inhibitor of Class II Gene Transcription	
		SUNGJOON KIM ET AL., PNAS, vol. 94:820-825, 02/1997, The Dr1/DRAP1 Heterodimer is a Global Repressor of Transcription in vivo	
		TAKAHASHI KUROMORI ET AL., Nucleic Acids Res., vol. 22(24):5296-5301, Cloning of cDNAs from Arabidopsis thaliana that encode putative protein phosphatase 2C and a human Dr1-like protein by transformation of a fission yeast mutant	
		FRED MERMELSTEIN ET AL., Genes & Dev., vol. 10:1033-1048, 1996, Requirement of a corepressor for Dr1-mediated repression of transcription	

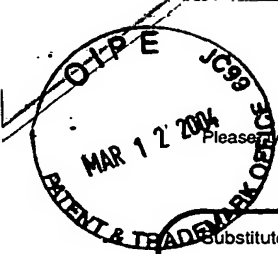
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		ROBERT J. WHITE ET AL., Science, vol. 266:448-450, 1994, Differential Regulation of RNA Polymerases I, II, and III by the TBP-Binding Repressor Dr1	
		TAE KOOK KIM ET AL., Jour. of Biol. Chem., vol. 270(18):10976-10981, 1995, TATA-binding Protein Residues Implicated in a Functional Interplay between Negative Cofactor NC2(DR1) and General Factors TFIIA and TFIIB	
		JAESANG KIM ET AL., Jour. of Biol. Chem., vol. 271(31):18405-18412, 1996, A Negative Cofactor Containing Dr1/p19 Modulates Transcription with TFIIA in a Promoter-specific Fashion	
		SUNGJOON KIM ET AL., Mol. & Cell. Biol., vol. 20(7):2455-2465, 04/2000, Genetic Analysis of the Ydr1-Bur6 Repressor Complex Reveals an Intricate Balance among Transcriptional Regulatory Proteins in Yeast	
		ANDREAS GOPPELT ET AL., EMBO J., vol. 15(12):3105-3116, 1996, A mechanism for repression of class II gene transcription through specific binding of NC2 to TBP-promoter complexes via heterodimeric histone fold domains	
		ELLEN L. GADBOIS ET AL., PNAS, vol. 94:3145-3150, 04/1997, Functional antagonism between RNA polymerase II holoenzyme and global negative regulator NC2 in vivo	
		GREGORY PRELICH, Mol. & Cell. Biol., vol. 17(4):2057-2065, 04/1997, Saccharomyces cerevisiae BUR6 Encodes a DRAP1/NC2alpha Homolog that has both Positive and Negative Roles in Transcription in Vivo	
		KAM YEUNG ET AL., Mol. & Cell. Biol., vol. 17(1):36-45, 01/1997, Functional Dissection of a Human Dr1-DRAP1 Repressor Complex	
		YONG CANG ET AL., EMBO J., vol. 18(23):6662-6671, 1999, A new regulatory domain on the TATA-binding protein	
		JUN XIE ET AL., EMBO J., vol. 19(4):672-682, 2000, A single point mutation in TFIIA suppresses NC2 requirement in vivo	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 11279032, 07/28/00, BEVAN, M. ET AL.	

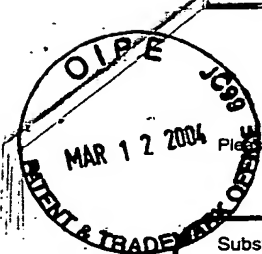
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		Group Art Unit	Unknown		
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Sheet	3	of	4	Attorney Docket Number	BB1107 US CIP

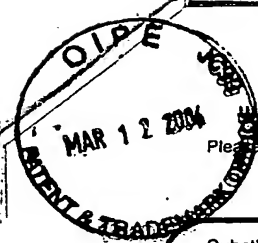
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		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 8346556, 06/08/00, BEVAN, M. ET AL.	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1352316, 02/01/96, KUROMORI, T. ET AL., Cloning of cDNAs from Arabidopsis thaliana that encode putative protein phosphatase 2C and a human Dr1-like protein by transformation of a fission yeast mutant	
		ANDREAS D. BAXEVANIS ET AL., Nucleic Acids Res., vol. 26(1):372-375, 1998, Histone Sequence Database: new histone fold family members	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 7513394, 11/05/99, GOPPELT, A. ET AL., A mechanism for repression of class II gene transcription through specific binding of NC2 to TBP-promoter complexes via heterodimeric histone fold domains	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1491710, 03/03/99, GOPPELT, A. ET AL., A mechanism for repression of class II gene transcription through specific binding of NC2 to TBP-promoter complexes via heterodimeric histone fold domains	
		CHENG-TING CHIEN ET AL., PNAS, vol. 88:9578-9582, 11/1991, The two-hybrid system: A method to identify and clone genes for proteins that interact with a protein of interest	
		RANDOLPH EIBLE, Biotechniques, vol. 13:18-20, 1992, A simple and Efficient Procedure for Transformation of Yeasts	
		GEORGE C. ALLEN ET AL., The Plant Cell, vol. 5:603-613, 06/1993, Scaffold Attachment Regions Increase Reporter Gene Expression in Stably Transformed Plant Cells	
		ZHAN-BIN LIU ET AL., Plant Cell, vol. 6:645-657, 05/1994, Soybean GH3 Promoter Contains Multiple Auxin-Inducible Elements	
		A. G. VON ARNIM ET AL., Gene, vol. 221:35-43, 1998, Cloning vectors for the expression of green fluorescent protein fusion proteins in transgenic plants	
		FRANK GINDULLIS ET AL., Plant Cell, vol. 11:1755-1767, 09/1999, MAF1, a Novel Plant Protein Interacting with Matrix Attachment Region Binding Protein MFP1, is Located at the Nuclear Envelope	

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		DIRK GORLICH ET AL., Science, vol. 271:1513-1518, 03/1996, Nucleocytoplasmic Transport	
		ROBERT J. GREBENOK ET AL., Plant J., vol. 12(3):685-696, 1997, Characterization of the targeted nuclear accumulation of GFP within the cells of transgenic plants	
		QUN ZHU ET AL., Plant Mol. Biol., vol. 29:535-550, 1995, Cloning and properties of a rice gene encoding phenylalanine ammonia-lyase	
		NOBUKO IWATAKI ET AL., Plant Mol. Biol., vol. 34:69-79, 1997, Restoration of TATA-dependent transcription in a heat-inactivated extract of tobacco nuclei by recombinant TATA-binding protein (TBP) from tobacco	
		QUN ZHU ET AL., Plant J., vol. 7(6):1021-1030, 1995, Accurate in vitro transcription from circularized plasmid templates by plant whole cell extracts	
		F. SANGER ET AL., PNAS, vol. 74(12):5463-5467, 12/1977, DNA sequencing with chain-terminating inhibitors	
		QUN ZHU ET AL., Plant Cell, vol. 7:1681-1689, 10/1995, TATA Box and Initiator Functions in the Accurate Transcription of a Plant Minimal Promoter in Vitro	
		RICHARD A. JEFFERSON, Plant Mol. Biol. Rep., vol. 5(4):387-405, 1987, Assaying Chimeric Genes in Plants: The GUS Gene Fusion System	

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NON-PATENT DOCUMENTS

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X	U	Baxevanis et al 1998, Nucleic Acids Research 26(1): 372-375.
	V	Maldonado et al 1999, Cell 24: 455-458.
X	W	Kim et al 2000, Molecular and Cellular Biology 20(7): 2455-2465.
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